

PATENT  
2185-0480P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:	NIPPA, S.	Conf.: 1737
Appl. No.:	09/708,519	Group: 1714
Filed:	November 9, 2000	Examiner: C. E. SHOSHO
For:	RESIN COMPOSITE AND METHOD FOR PRODUCING THE SAME	

37 CFR § 1.132 DECLARATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Sir:

I, Kazuki TAKEMURA, a Japanese citizen residing at 7-14, Hoshigoe-cho, Niihama-shi, Ehime, Japan, declare as follows:

That I received a Master Degree from the Graduate School of Osaka University, Department of Engineering in March 1993, and entered Sumitomo Chemical Company Limited in April, 1993, in which company I have since then been engaged in research in the technology field of inorganic materials;

That I am familiar with the prosecution history of the above-identified application;

That the following Experiment 1 was conducted by me, or that it was conducted under my direction and control.

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*Experiment 1*

13 parts of aluminum hydroxide powder having a crystalline structure of boehmite and an average primary-particle diameter of 13 nm, which was obtained by hydrolysis of aluminum alkoxide, was mixed with 9 parts of PTFE emulsion (trade name: PTFE 30J, PTFE content: 60%, manufactured by Dupont-Mitsui Fluorochemicals Co., Ltd.) in a vessel for 10 minutes to obtain a mixture.

The mixture was mixed for 4 minutes at 100 °C with 87 parts of styrene-butadiene rubber (trade name: HS-1, manufactured by Sumitomo Chemical Co., Ltd.), 1.3 parts of zinc oxide, 1.3 parts of stearic acid, 0.95 parts of an age resistor (trade name: ANTIGENE 3C, manufactured by Sumitomo Chemical Co., Ltd.), and 0.95 parts of wax (trade name: SUNNOC-N, manufactured by Ouchi-Shinko Chemical Industrial Co., Ltd.), and then mixed for 3.5 minutes at 50 °C with 0.64 parts of a vulcanization accelerator (trade name: SOXINOL CZ, manufactured by Sumitomo Chemical Co., Ltd.), 0.64 parts of a vulcanization accelerator (trade name: SOXINOL D, manufactured by Sumitomo Chemical Co., Ltd.), and 0.89 parts of sulfur.

The resultant was subjected to vulcanization molding for 20 minutes by using a 160 °C hot press to obtain a resin composite.

Using the thus obtained resin composite, an index Y/X of the same resin composite was measured in accordance with the procedure set forth in the present specification at page 15, lines 17-25.

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The resin composite of the above Experiment 1 possessed an index Y/X of 0.135. It is thus recognized that the resin composite prepared in the above Experiment 1 does not have an index Y/X of 0.1 or less.

The undersigned declarant declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed this 21<sup>st</sup> day of September 2006.

Kazuki Takemura

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